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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/814,269	04/01/2004	Hiroyuki Ishida	Q80854	8474
7590 07/27/2005		EXAMINER		
Sughrue Mion PLLC			TSIDULKO, MARK	
2100 Pennsylvania Avenue, N. W. Washington, DC 20037-3213			ART UNIT	PAPER NUMBER
			2875	
			DATE MAILED: 07/27/2009	5

Please find below and/or attached an Office communication concerning this application or proceeding.

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:	Application No.	Applicant(s)	**
	10/814,269	ISHIDA ET AL.	
Office Action Summary	Examiner	Art Unit	
	Mark Tsidulko	2875	
The MAILING DATE of this communicate Period for Reply	ition appears on the cover sheet wi	h the correspondence address	
A SHORTENED STATUTORY PERIOD FOR THE MAILING DATE OF THIS COMMUNICATION of time may be available under the provisions of after SIX (6) MONTHS from the mailing date of this communication of the period for reply specified above is less than thirty (30) of the first of the period for reply is specified above, the maximum statuted Failure to reply within the set or extended period for reply within the set or extended p	ATION. 37 CFR 1.136(a). In no event, however, may a recication. lays, a reply within the statutory minimum of thirty ory period will apply and will expire SIX (6) MON I, by statute, cause the application to become AB.	ply be timely filed (30) days will be considered timely. THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed	on <i>01 April 2004</i> .	·	
	☐ This action is non-final.		
3) Since this application is in condition for closed in accordance with the practice	· ·	· ·	
Disposition of Claims			
4) Claim(s) 1-4 is/are pending in the appliance of the above claim(s) is/are solutions. 5) Claim(s) is/are allowed. 6) Claim(s) 1-4 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restrictions. Application Papers 9) The specification is objected to by the End of the drawing(s) filed on 01 April 2004 is/Applicant may not request that any objections. Replacement drawing sheet(s) including the solutions.	withdrawn from consideration. In and/or election requirement. Examiner. I/are: a) accepted or b) objection to the drawing(s) be held in abeyander correction is required if the drawing(s)	ce. See 37 CFR 1.85(a). cs) is objected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119			
12) △ Acknowledgment is made of a claim for a) ☐ All b) ☐ Some * c) ☒ None of: 1. ☒ Certified copies of the priority does not be copied to be copi	cuments have been received. cuments have been received in Ap the priority documents have been of Bureau (PCT Rule 17.2(a)).	plication No eceived in this National Stage	•
Attachment(s)			
) Notice of References Cited (PTO-892)	4) Interview Su	mmary (PTO-413)	
 Notice of Draftsperson's Patent Drawing Review (PTO-1) Information Disclosure Statement(s) (PTO-1449 or PTO Paper No(s)/Mail Date 	-948) Paper No(s)	/Mail Date ormal Patent Application (PTO-152)	

Application/Control Number: 10/814,269

Art Unit: 2875

DETAILED ACTION

Claim Objections

Claim 3 objected to because of the following informalities: the phrase "...light from at lease a part of an opening..." (line 5) should be changed to "...light from at least a part of an opening...". Appropriate correction is required.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 2 are rejected under 35 U.S.C. 103(a) as being unpatentable over Thominet (US 6,565,247) in view of Ueda (US 6,617,615).

Referring to Claim 1 Thominet discloses (Figs. 1, 4) a vehicle headlight (col. 1, lines 57-64) having a plurality of LEDs as a light source and an optical device [14] and [16] to form a cut line to determine a boundary between bright and dark by deflecting the light generated by the LEDs and projecting a shape of the light emitting area.

Thominet discloses the instant claimed invention except for linear type LED.

Ueda discloses a linear semiconductor light-emitting element (claim 1). Using of this type of LED allow to obtain horizontally wider light distribution pattern and therefore to increase an illuminated area.

Application/Control Number: 10/814,269

Art Unit: 2875

Referring to Claim 2 Tominet discloses (Fig. 1) a plurality of LEDs.

It would have been obvious to one having ordinary skill in the art, at the time the invention was made, to provide the linear semiconductor light-emitting element, as taught by Ueda for the device of Thominet, in order to obtain wider illuminated area.

Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Thominet and Ueda as applied to claim 1 above, and further in view of Komoto (US 5,753,940).

Thominet et al. disclose the instant claimed invention except for an active layer and a groove for emitting a light wherein a depth of the groove reaching at least a part of the active layer.

Komoto discloses (Fig.3C) an active layer [3] and a groove for emitting a light wherein a depth of the groove reaching at least a part of the active layer.

It would have been obvious to one having ordinary skill in the art, at the time the invention was made, to provide the semiconductor of Thominet et al. with the active layer and a groove, as taught by Komoto, for emitting a light to the external of the semiconductor chip.

Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Komoto (US 5,753,940).

Komoto discloses (Fig.3C) an active layer [3] and a groove for emitting a light wherein a depth of the groove reaching at least a part of the active layer.

Application/Control Number: 10/814,269

Art Unit: 2875

It is clearly understood for those skilled in the art of illumination, that the light from the semiconductor element, if to use in a vehicle headlamp, will be generated in a direction corresponding to at least a part of a cut line between bright and dark.

It would have been obvious to one having ordinary skill in the art, at the time the invention was made, to provide the semiconductor of Thominet et al. with the active layer and a groove, as taught by Komoto, for emitting a light to the external of the semiconductor element.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mark Tsidulko whose telephone number is (571)272-2384. The examiner can normally be reached on 8 - 5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sandra O'Shea can be reached on (571) 272-2378. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306 for all communications.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Art Unit: 2875

M.T.

May 27, 2005

JOHN ANTHONY WARD PRIMARY EXAMINER